



the diagnosis checklist



“Missed information and delayed diagnosis can result in unnecessary testing and prolonged hospital stays, both of which can adversely affect patient care. Isabel is a powerful tool in helping to avoid these pitfalls while having the added benefit of helping to educate our physicians by broadening their differential diagnostic considerations.”

Jay Falk, M.D.,  
Chief Academic Medical  
Officer, Orlando Health

### What is Isabel?

Isabel is a diagnosis decision support tool designed to produce a differential list and stimulate thinking when there is diagnostic doubt or question. Clinicians worldwide use Isabel to improve diagnosis accuracy and find the correct diagnosis earlier.

### Why Use Isabel

By complementing the clinician’s knowledge and expertise, Isabel’s differential and associated access to evidence-based content can rapidly assist in determining or confirming a diagnosis and help answer the question “What else might be going on?”. Using Isabel to minimize delay or misdiagnosis can have a tremendous impact on treatment and downstream quality, safety, clinical, and financial outcomes.

### Using Isabel Diagnosis Decision Support

Isabel is used as part of normal physician workflow. Data for patient age, gender and abnormal clinical features are entered directly or received from the EMR, and a differential diagnoses list is produced. Each diagnosis is linked to online clinical content including, textbooks, journals, abstracts and referential resources. Isabel can be customized to incorporate an institution’s web resources, guidelines and protocols. Isabel seamlessly consolidates disparate information sources and delivers pertinent information as part of the clinician’s workflow.

### Improved Performance

Physicians who use Isabel attest that it helps improve critical thinking skills, diagnosis decision making and referral management. When a diagnosis is correctly determined the first time, the treatments are most effective, referrals are more appropriate or not needed, ordered tests are more relevant, and waste (unnecessary resource utilization and costs) is eliminated from the system.

As healthcare moves to managing the care of populations through Accountable Care Organizations, speed to correct diagnosis is a fundamental driver for financial and clinical performance.



# Diagnostic Decision Support in an Easy-to-Use Web Tool

The screenshot shows the Isabel web tool interface. On the left, the 'enter clinical features' tab is active, showing a form for entering patient demographics and clinical symptoms. A callout box labeled 'Demographics' points to the 'age\*' dropdown (set to 'geriatric (65yrs-over)') and the 'gender' radio buttons (set to 'male'). Another callout box labeled 'Clinical Features' points to the text input field containing 'dyspnea on exertion', 'persistent cough', 'rales', and 'low oxygen saturation'. The 'get checklist' button is highlighted. On the right, the 'diagnoses' tab is active, showing a 'Results' section with a list of diagnoses. A callout box labeled 'Diagnosis Checklist' points to the list. The list includes: Atypical Pneumonia (flagged), Pneumocystis Pneumonia (flagged), Pulmonary Edema (flagged), Bronchiectasis, Pseudomonas, Heart Failure / CHF (flagged), Pneumoconioses, Interstitial Lung Disease, Influenza Viruses, Lung Abscess (flagged), and Lung Neoplasms (flagged). Each diagnosis has a 'Don't Miss' icon (a hand with a question mark) and a checkbox. The 'Update EMR' button is also visible.

Users enter patient demographics and clinical symptoms, and then quickly receive a diagnosis checklist, with flagged "Don't Miss Diagnoses."

## Isabel Impact

In a recent study in UK, physicians using Isabel found that in 29% of their cases they no longer needed to refer, 36% said they referred more appropriately, and their overall referral rate decreased by 15%.

17% of surveyed users said that Isabel caused them to change their diagnosis hypothesis.

83% of surveyed users said Isabel caused them to consider important diagnoses they had not thought of previously.

## Streamlining Workflow through EMR Integration

Isabel integrates with most EMR systems and can be used seamlessly as part of normal workflow. Isabel can use various integration methods (query string, HL-7, XML, API). When integrated, the patient information flows to Isabel automatically and drives the production of the diagnosis list. Closing the loop, selected diagnoses can be sent back to the patient record.

## Accessible on Mobile Devices

Isabel access is available via network computers and mobile devices such as iPhone, iPad, and Android based smart phones.

## Affordable & Fast Implementation

Implementation is swiftly done in a few weeks and minimally impacts IT resources.

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